

HAND DELIVERED

JUN 28 2006
06.02/07
UTAH DIVISION OF
SOLID & HAZARDOUS WASTE



**INDUSTRIAL LANDFILL
RENEWAL APPLICATION
HUNTER POWER PLANT
FINAL REVISION**

DATE:

JUNE 27, 2006

PREPARED FOR PACIFICORP

BY



Table of Contents

1	PERMIT APPLICATION & REVISED NARRATIVE
2	REVISED PLAN SHEETS
3	APPENDIX A PERMIT APPLICATION FORM – CLASS IIIb LANDFILL
4	APPENDIX B PROOF OF OWNERSHIP DOCUMENTS
5	APPENDIX C LANDFILL INSPECTION FORMS
6	APPENDIX D HUNTER POWER PLANT LANDFILL OPERATIONS PLAN
7	APPENDIX E HUNTER PLANT EMERGENCY PROCEDURES
8	APPENDIX F CLOSURE/POST-CLOSURE COST SPREADSHEETS
9	APPENDIX G FINANCIAL ASSURANCE
10	HAND DELIVERED JUN 28 2008 <i>06.02.08</i> UTAH DIVISION OF SOLID & HAZARDOUS WASTE

3-RING BINDER CONTENTS

Please see the following notes which detail the contents and updates to the Hunter Industrial Solid Waste Landfill *Permit Renewal Application*:

Tab 1. Permit Application Form and Revised Narrative

The entire narrative section (General Report, Technical Report, and Financial Assurance) was reformatted into a contiguous Microsoft Word format and resubmitted. Also, narrative headings were updated to include references to the *Utah Solid Waste Permitting and Management Rules*. An original updated Solid Waste Permit Application Form has been included at the beginning of the document.

Tab 2. Revised Plan Sheets

All Plan Sheets and site maps are included in this section for reference.

Tab 3. Appendix A

A copy of the updated Class IIIb Landfill Permit Application Form included in Tab 1 is provided.

Tab 4. Appendix B

Proof of ownership and legal documents for the Hunter Landfill are included.

Tab 5. Appendix C

Copies of industrial landfill inspection forms referenced in this document are included in this section.

Tab 6. Appendix D

A complete copy of the Hunter Power Plant *Industrial Landfill Operations Plan* is included in this section.

Tab 7. Appendix E

A complete copy of the *Hunter Plant Emergency Procedures* is included.

Tab 8. Appendix F

Updated closure/post-closure costs have been calculated, with cost spreadsheets and support documentation provided.

Tab 9. Appendix G

Financial assurance information is included in this section.

NOTE: An electronic copy of the complete Hunter Power Plant Industrial Solid Waste Landfill *Permit Renewal Application* document (Adobe format) is included on a CD inside the front cover of this document.

UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY

DIVISION OF SOLID AND HAZARDOUS WASTE

APPLICATION FOR A PERMIT TO OPERATE A CLASS III LANDFILL

The applicant shall submit an original permit application, which includes a general report and a technical report, to:

Dennis R. Downs, Director
Division of Solid and Hazardous Waste
Utah Department of Environmental Quality
PO Box 144880
Salt Lake City, Utah 84114 - 4880

(Note: When the application is determined to be complete, submittal of the original complete permit application and one copy of the complete application will be required.)

PART I - GENERAL INFORMATION

1. Name of Facility Hunter Plant
2. Site Location Highway 10, South of Castle Dale
3. Facility Owner PacifiCorp
4. Facility Operator PacifiCorp
5. Contact Person Johnny Pappas

Address P.O. Box 569

Castle Dale, UT 84513

Telephone (435) 748-6525

6. Type of Facility:
☐ Class IIIa Landfill ☒ Class IIIb Landfill
7. Type of Application
☐ Initial Application ☒ Permit Renewal

8. Property Ownership

☒ Presently owned by applicant

☐ To be purchased by applicant

☐ To be leased by applicant

Property owner (if different from applicant)

Name _____

Address _____

Telephone _____

9. Certification of submitted information.

[Signature], Vice President
(Name of Official) (Title)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

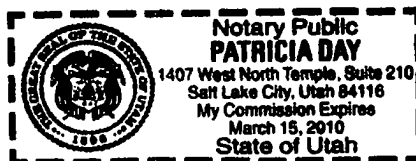
Signature: Patricia Day Date 6/7/06

SUBSCRIBED AND SWORN to before This 7th day of June, 20 06

My commission expires on the 15th day of March, 20 10

Notary Public in and for

(SEAL) Salt Lake County, Utah.



Important Note: The following checklist is for the permit application and addresses only the requirements of the Division of Solid and Hazardous Waste. Other federal, state, or local agencies may have requirements that the facility must meet. The applicant is responsible to be informed of, and meet, any applicable requirements. Examples of these requirements may include obtaining a conditional use permit, a business license, or a storm water permit. The applicant is reminded that obtaining a permit under the *Solid Waste Permitting and Management Rules* does not exempt the facility from these other requirements.

An application for a permit to construct and operate a landfill is the documentation that the landfill will be located, designed, constructed, and operated to meet the requirements of Rules R315-302, R315-303, R315-308, R315-309, and R315-315 of the *Utah Solid Waste Permitting and Management Rules* and the *Utah Solid and Hazardous Waste Act* (UCA 19-6-101 through 123). The application should be written to be understandable by regulatory agencies, landfill operators, and the general public. The application should also be written so that the landfill operator, after reading it, will be able to operate the landfill according to the requirements with a minimum of additional training.

Copies of the *Solid Waste Permitting and Management Rules*, the *Utah Solid and Hazardous Waste Act*, along with many other useful guidance documents can be obtained by contacting the Division of Solid and Hazardous Waste at 801-538-6170. Most of these documents are available on the Division's web page at www.eq.stat.ut.us/eqshw/dshw-1.htm. Guidance documents can be found at the solid waste section portion of the web page.

When the application is determined to be complete, the original complete application and one copy of the complete application are required along with an electronic copy.

CHECKLIST OF ADDITIONAL INFORMATION REQUIRED

(Please see Section R315-310-5 of the *Utah Solid Waste Permitting and Management Rules*)

PART II - GENERAL REPORT

INTRODUCTION

- ☒ Completed PART I - GENERAL INFORMATION (R315-310-3(1)(a))
- ☒ General description of the facility (R315-310-3(1)(b))
- ☒ Legal description; proof of ownership, lease agreement, or other mechanism; latitude and longitude of the site; and land use and zoning of surrounding area (R315-310-3(1)(c))

☒ The types of waste and area served by the facility (R315-310-3(1)(d))

☒ A demonstration that the landfill is not a commercial landfill

PLAN OF OPERATION (R315-310-3(1)(e))

☒ An intended schedule of construction (R315-302-2(2)(a))

☒ A description of on-site waste handling procedures and an example of the form that will be used to record the weights or volumes of waste received (R315-302-2(2)(b) and R315-310-3(1)(f))

☒ A schedule for conducting inspections and monitoring and examples of the forms used to record the results of the inspections and monitoring (R315-302-2(2)(c) , R315-302-2(5)(a), and R315-310-3(1)(g))

☒ Contingency plans in the event of a fire or explosion (R315-302-2(2)(d))

☒ Corrective action programs to be initiated if ground water is contaminated (R315-302-2(2)(e))

☒ Contingency plans for other releases, e.g. explosive gases or failure of run-off collection system (R315-302-2(2)(f))

☒ A plan to control fugitive dust generated from roads, construction, general operations, and covering the waste (R315-302-2(g))

☒ Description of maintenance of installed equipment (R315-302-2(2)(h))

☒ Procedures for excluding the receipt of Regulated hazardous or PCB containing waste (R315-302-2(2)(i))

☒ Procedures for controlling disease vectors (R315-302-2(2)(j))

☒ A plan for alternative waste handling (R315-302-2(2)(k))

☒ A general training and safety plan for site operations (R315-302-2(2)(n))

☒ Any other items not covered above as to how the facility will meet the requirements of Rule R315-304 (R315-310-5(2)(e))

☒ Any other site specific information pertaining to the plan of operation required by the Executive Secretary (R315-302-2(2)(o))

PART III TECHNICAL REPORT

MAPS

- ☒ Topographic map drawn to the required scale and contours showing the boundaries of the landfill unit; design and location of the run-on/run-off control structures; and the borrow and fill areas (R315-310-4(2)(a)(i))
- ☒ Most recent U.S. Geological Survey topographic map, 7-1/2 minute series, showing the waste facility boundary; the property boundary; surface drainage channels; existing utilities and structures within one-fourth mile of the site; and the direction of the prevailing winds (R315-310-4(2)(a)(ii))

ENGINEERING REPORT - PLANS, SPECIFICATIONS, AND CALCULATIONS

- ☒ Cell design, cover design, fill methods, elevation of final cover including plans and drawings (R315-310-3(1)(b))
- ☒ Design and location of run-on and run-off control systems (R315-310-5(2)(b))

CLOSURE PLAN (R315-310-3(1)(h) and R315-310-5(2)(c))

- ☒ Closure schedule (R315-310-4(2)(d)(i))
- ☒ Design of final cover (R315-310-4(2)(c)(iii) and R315-305-5(5))
- ☒ Capacity of site in volume and tonnage (R315-310-4(2)(d)(ii))
- ☒ Final inspection by regulatory agencies (R315-310-4(2)(d)(iii))

POST-CLOSURE CARE PLAN (R315-310-3(1)(h))

- ☒ Site monitoring, if required (R315-310-4(2)(e)(i))
- ☒ Changes to record of title, land use, and zoning restrictions (R315-310-4(2)(e)(ii))
- ☒ Maintenance activities to maintain cover and run-on/run-off control systems (R315-310-4(2)(e)(iii))
- ☒ List the name, address, and telephone number of the person or office to contact about the

facility during the post-closure care period (R315-310-4(2)(e)(vi))

FINANCIAL ASSURANCE (R315-310-3(1)(j))

- ☒ Identification of closure costs including cost calculations (R315-310-4(2)(d)(iv))
- ☒ Identification of post-closure care costs including cost calculations (R315-310-4(2)(e)(iv))
- ☒ Identification of the financial assurance mechanism that meets the requirements of Rule R315-309 and the date the mechanism will become effective (R315-309-1(1))

SPECIAL REQUIREMENTS FOR A CLASS IIIa LANDFILL (R315-304-5(7)(b))

- ☐ A geohydrological assessment of the site (R315-310-4(2)(b))
- ☐ An engineering report, plans, specifications, and calculations (R315-310-4(2)(c))
- ☐ A ground water monitoring plan (R315-304-5(4) and R315-310-4(2)(c)(vi))
- ☐ A closure plan that meets the requirements of R315-303-3(4) (R315-304-5(2)(a))

Revision date February 21, 2002

SECTION

1

TABLE OF CONTENTS

1.0	PART I - GENERAL INFORMATION (R315-310-3(1)(A))	1
2.0	PART II - GENERAL REPORT	1
2.1	INTRODUCTION.....	1
2.1.1	General Description of the Facility (R315-310-3(1)(a)).....	1
2.1.2	Legal Description and Proof of Ownership (R315-310-3(1)(c))	2
2.1.3	Latitude and Longitude Coordinates (R315-310-3(1)(c)).....	2
2.1.4	Land Use and Zoning Map (R315-310-3(1)(c))	2
2.1.5	Types of Waste and Area Served (R315-310-3(1)(d)).....	2
2.1.6	Non-Commercial Landfill Demonstration.....	3
2.2	PLAN OF OPERATION (R315-310-3(1)(e)).....	3
2.2.1	Intended Construction Schedule (R-315-302-2(2)(a)).....	3
2.2.2	On-Site Waste Handling Procedures (R315-302-2(2)(b)) and (R315-310-3(1)(g)).....	3
2.2.3	Landfill Inspections and Monitoring (R315-310-3(1)(g))	4
2.2.4	Fire/Explosion Contingency Plans (R315-302-2(2)(d)).....	4
2.2.5	Ground Water Corrective Action Program (R315-302-2(2)(e))	4
2.2.6	Contingency Plans for Other Releases (R315-302-2(2)(f))	4
2.2.7	Fugitive Dust Control (R315-302-2(2)(g))	4
2.2.8	Maintenance of Installed Equipment (R315-302-2(2)(h))	4
2.2.9	Exclusion of Hazardous/PCB Waste (R315-302-2(2)(i))	5
2.2.10	Control of Disease Vectors (R315-302-2(2)(j)).....	5
2.2.11	Alternative Waste Handling (R315-302-2(2)(k))	5
2.2.12	General Safety Training for Site Operations (R315-302-2(2)(n))	5
2.2.13	Regulatory Requirements of Rule R315-304 (R315-310-5(2)(e)).....	5
2.2.14	Additional Site Information (R315-302-2(2)(o)).....	9
3.0	PART III – TECHNICAL REPORT	10
3.1	MAPS	10
3.1.1	Topographic Map (R315-310-4(2)(a)(i)).....	10
3.1.2	U.S.G.S. Topographic Map (R315-310-4(2)(a)(ii)).....	10
3.2	ENGINEERING REPORT	10
3.2.1	Landfill Design & Operation Details (R315-310-3(1)(b)).....	10
3.2.2	Run-Off/Run-On Control Systems (R315-310-5(2)(b))	10
3.3	CLOSURE PLAN (R315-310-3(1)(h)) and (R315-310-5(2)(c)).....	11
3.3.1	Closure Schedule (R315-310-4(2)(d)(i))	11
3.3.2	Final Cover Design (R315-310-4(2)(c)(iii)) and (R315-305-5(5))	11
3.3.3	Site Capacity (R315-310-4(2)(d)(ii)).....	12
3.3.4	Final Regulatory Inspection (R315-310-4(2)(d)(iii)).....	12
3.4	POST – CLOSURE CARE PLAN (R315-310-3(1)(h)).....	12
3.4.1	Site Monitoring (R315-310-4(2)(e)(i))	12
3.4.2	Title and Land Use Changes/Zoning Restrictions (R315-310-4(2)(e)(ii)).....	13
3.4.3	Post-Closure Maintenance (R315-310-4(2)(e)(iii))	13
3.4.3	Contact Information (R315-310-4(2)(e)(vi))	14

3.5	FINANCIAL ASSURANCE (R315-310-3(1)(j))	14
3.5.1	Closure Cost Calculations (R315-310-4(2)(d)(iv)).....	14
3.5.2	Post-Closure Cost Calculations (R315-310-4(2)(e)(iv)).....	14
3.5.3	Financial Assurance Mechanism (R315-309-1(1)).....	15
4.0	REFERENCES	15

LIST OF PLAN SHEETS

Plan Sheet 1	USGS Topographic Map (Castle Dale, Utah)
Plan Sheet 2	Emery County Zoning Map
Plan Sheet 3	Hunter Plant Ash Pile Development, 30-Year Plan, General Arrangement
Plan Sheet 4	Hunter Plant Ash Pile Development, Area Plan
Plan Sheet 5	Typical Industrial Waste Cross Sections
Plan Sheet 6	Secondary Industrial Waste Cell – Typical Operation

LIST OF APPENDICES

Appendix A	Permit Application Form
Appendix B	Legal Documentation & Proof of Ownership
Appendix C	Landfill Inspection Forms
Appendix D	Hunter Power Plant Landfill Operations Plan
Appendix E	Hunter Plant Emergency Procedures
Appendix F	Closure/Post Closure Cost Spreadsheets
Appendix G	Financial Assurance

1.0 PART I - GENERAL INFORMATION (R315-310-3(1)(a))

PacifiCorp has completed this Application for a Permit to Operate a Class IIb Landfill at the Hunter Power Plant. The original permit application form is included in the opening pages of this document. A copy of the application form is also included in Appendix A.

2.0 PART II - GENERAL REPORT

2.1 INTRODUCTION

PacifiCorp respectfully submits this document as support information for the permit renewal application to operate an industrial solid waste landfill at the Hunter Power Plant located South of Castle Dale, Utah. This application has been formatted to follow the sequence of requirements and standards set forth in the Utah Division of Solid and Hazardous Waste (DSHW) Rules and Regulations (Section R315). Following each outline heading in this document is a reference to the corresponding section of the DSHW regulations.

PacifiCorp complies with the DSHW Rules and Regulations through the use of its *Landfill Operations Plan*. Many of the sections in this document contain references or direct passages from this plan. A complete copy of the plan is included in Appendix D.

This revision addresses issues identified by the Utah DSHW in its Request for Additional Information issued on June 13, 2002. In addition, the entire document has been reformatted and reorganized to allow for easier review and updating in future renewals.

2.1.1 General Description of the Facility (R315-310-3(1)(a))

The Hunter Power Plant, majority owned by and totally operated by PacifiCorp, is a coal-fired electrical generation plant located near Castle Dale in Emery County, Utah. The Hunter Plant disposes of ash from burning coal, flue gas desulfurization wastes, and industrial wastes at its landfill site located on the power plant facility. A specific location within the ash landfill area is designated for all industrial waste. Industrial waste has been defined as any waste generated other than burned coal waste, scrubber sludge, or wastes associated with the production of electricity. Hazardous or PCB containing wastes are excluded from the industrial landfill. This permit application applies only to the industrial waste portions of the Hunter Landfill, as ash landfills are exempt from Utah DSHW permitting rules and regulations.

Operator information for the Hunter Plant is as follows:

Applicant:

PacifiCorp
1407 W. North Temple, Room 320
Salt Lake City, UT 84116

Property Owner: PacifiCorp

Property Address: Highway 10 South of Castle Dale
Castle Dale, UT 84513

Landfill Manager: Johnny Pappas
(435) 748-6525

2.1.2 Legal Description and Proof of Ownership (R315-310-3(1)(c))

Legal documentation and proof of ownership of the Hunter facility is located in Appendix B.

2.1.3 Latitude and Longitude Coordinates (R315-310-3(1)(c))

Latitude and longitude coordinates for the industrial landfill are as follows:

39° 09' 34" North Latitude; 111° 00' 34" West Longitude

In addition, survey control points defining the boundaries of the primary and secondary industrial waste units are included on the following plan sheets:

Plan Sheet 3 Hunter Plant, Ash Pile Development, 30-Year Plan, General Arrangement
Plan Sheet 4 Hunter Plant, Ash Pile Development, Area Plan

2.1.4 Land Use and Zoning Map (R315-310-3(1)(c))

A zoning map showing land uses of the surrounding areas is located in Plan Sheet 2. A USGS Topographic Map also shows surrounding area detail, and is included as Plan Sheet 1.

2.1.5 Types of Waste and Area Served (R315-310-3(1)(d))

Typical plant generated industrial wastes deposited in the industrial landfill include paper products, plastic and metal drums, dirt, wood products, lunch room wastes, scrap metal, drained filters, and digested domestic wastewater treatment plant sludge which meet the requirements of R315-315.5 and the Utah Division of Water Quality. Hazardous or PCB containing wastes are excluded from the industrial landfill.

The industrial landfill only receives waste from operations at the Hunter Plant, and does not accept waste from the public.

2.1.6 Non-Commercial Landfill Demonstration

The Hunter Power Plant Industrial Solid Waste Landfill is not open to the public. It receives waste generated solely from on-site operations. Security at the plant regulates entry and exit of any individual onto the property.

2.2 PLAN OF OPERATION (R315-310-3(1)(e))

2.2.1 Intended Construction Schedule (R-315-302-2(2)(a))

Industrial wastes are placed in a specific area in the north-central portion of the ash embankment area, designated the Primary Industrial Waste Site. This designated site is approximately 6.2 acres, and will be filled to the same final elevation as the ash disposal. After the Primary Industrial Waste Site has been filled to capacity, a Secondary Industrial Waste Site has also been designated near the north boundary of the embankment area. This area is approximately 9.8 acres, and will provide additional industrial waste capacity at the landfill.

A 30-year design life was established by the Hunter Plant for the ash embankment in 1997. The Primary Industrial Waste Site is estimated to be filled to capacity in 2006, and the Secondary Industrial Waste Site will last until end of the ash landfill life in 2027. See Plan Sheet 3 (General Arrangement), for location of the Primary and Secondary Industrial Waste Site locations. Also refer to Plan Sheets 5 & 6 (Ash Pile Development Layout #1 and #2). These maps are located in Tab 2 of this document.

2.2.2 On-Site Waste Handling Procedures (R315-302-2(2)(b)) and (R315-310-3(1)(g))

The industrial waste sites will be operated in compliance with Utah DSHW regulations. Materials disposed of in the landfill will be compacted to the smallest practical volume before final placement against the working face and covered. At the end of the operating day when material is disposed of in the landfill, after compacting and pushing the waste material against the working face, the material will be completely covered with at least 6 inches of earth, fly ash or other suitable cover material. This is part of the litter, rodent and insect control procedures. The working area will be so developed that water will not be allowed to pond above or in the operating area. The working face will be kept small for fugitive dust control.

Hazardous or PCB containing wastes are excluded from the industrial landfill. At least one percent (1%) of waste loads will be reviewed and characterized in detail and recorded on a log sheet. Inspection procedures will consist of the waste being spread out on the ground, and the perimeter of the waste walked to check for hazardous or PCB containing materials. Inspection details will be recorded on a log sheet. The log sheet instructs that hazardous wastes are not permitted in the landfill, and contains a list of prohibited materials. Any prohibited materials will be removed from the waste load, containerized, and reported to the Landfill Manager. A copy of the Weight and Volume Log Sheet used by landfill personnel is included in Appendix C.

2.2.3 Landfill Inspections and Monitoring (R315-310-3(1)(g))

Monthly inspections of the industrial landfill will be conducted to identify problems in time to correct them before they harm human health or the environment. Please see Appendix C for the Monthly Landfill Inspection form.

2.2.4 Fire/Explosion Contingency Plans (R315-302-2(2)(d))

The *Hunter Plant Emergency Procedures* shall be abided by in the event of a fire, explosion, and other releases such as explosive gases or run-off collection failure. A complete copy of the *Hunter Plant Emergency Procedures* is included in Appendix E.

2.2.5 Ground Water Corrective Action Program (R315-302-2(2)(e))

An investigation shall be initiated if contamination is detected in the groundwater. The investigation shall involve working in cooperation with state agencies to determine the extent of the problem and the proper remedial actions.

2.2.6 Contingency Plans for Other Releases (R315-302-2(2)(f))

The *Hunter Plant Emergency Procedures* shall be abided by in the event of a fire, explosion, and other releases such as explosive gases or run-off collection failure. A complete copy of the *Hunter Plant Emergency Procedures* is located in Appendix E.

2.2.7 Fugitive Dust Control (R315-302-2(2)(g))

The *Hunter Power Plant Fugitive Dust Control Plan* contains detailed descriptions of the methods to be implemented for controlling dust. The plan identifies primary sources of fugitive dust at the plant (which include the ash haul road and landfill), establishes work practices and procedures that minimize fugitive dust, and describes visual indicators to determine the appropriate level of control necessary to achieve dust control. The primary method outlined in controlling dust on the ash haul road and landfill is frequent use of water. If the use of water and other operational procedures do not adequately control dust, a variety of other control alternatives may be utilized. A copy of the plant *Fugitive Dust Control Plan* is included in Appendix F of the *Landfill Operations Plan*.

2.2.8 Maintenance of Installed Equipment (R315-302-2(2)(h))

As a Class IIIb landfill, the Hunter Industrial Solid Waste Landfill does not operate or maintain any leachate systems, gas collection systems or ground water monitoring systems.

2.2.9 Exclusion of Hazardous/PCB Waste (R315-302-2(2)(i))

Hazardous or PCB containing wastes are excluded from the landfill. Each load of waste material is reviewed and characterized by the truck driver and recorded on a log sheet. The driver is instructed and the log sheet reminds him that hazardous wastes are not permitted in the landfill. A copy of the Log Sheet used by landfill personnel is included in Appendix C.

2.2.10 Control of Disease Vectors (R315-302-2(2)(j))

At the end of the operating day when material is disposed of in the industrial landfill, after compacting and pushing the waste material against the working face, the material will be completely covered with at least 6 inches of earth, fly ash or other suitable cover material. This is part of the litter, rodent and insect control procedures.

2.2.11 Alternative Waste Handling (R315-302-2(2)(k))

In the occurrence that the industrial landfill is inoperative, solid waste shall be sent the East Carbon Landfill or the Emery County Landfill.

2.2.12 General Safety Training for Site Operations (R315-302-2(2)(n))

The Hunter Plant through the plant Environmental Engineer and Training Coordinator shall conduct ash pile and industrial waste training seminars to involved PacifiCorp employees and Contractor's personnel. Generally, training seminars will be conducted when operating personnel changes are made by PacifiCorp or the Contractor. Also, training seminars are to be conducted when major changes in the *Landfill Operations Plan* occur. This training should be performed as needed to assist the employees in executing and fulfilling their responsibilities. Training records should be kept identifying who has trained, the training subject, and the date trained.

Please refer to Appendix C for a copy of the Industrial Waste Landfill Training Sign-In Sheet.

2.2.13 Regulatory Requirements of Rule R315-304 (R315-310-5(2)(e))

Included is an excerpt from the Hunter Power Plant *Landfill Operations Plan*, Regulatory Requirements section:

The Utah Administrative Code has exempted ash and flue gas emission control wastes from coal burning power plants from the requirements contained in the solid waste regulations. Because other industrial wastes that are not exempt are disposed of at the landfill, Utah Administrative Code Regulation R315-304 applies to the Hunter Plant industrial landfill operations. These regulations classify industrial landfills into two

categories: Class IIIa and Class IIIb. The Hunter Plant industrial landfill meets the requirements for a Class IIIb classification. The landfill is not open to the public, it receives waste generated solely from on site and it does not receive hazardous waste. Industrial waste has been received at the landfill prior to 1998; thus the landfill is an existing Class IIIb landfill. Existing Class IIIb landfills have no siting restrictions.

The regulatory requirements for operation, closure and post-closure care for Class IIIb landfills are summarized below:

1. Develop, keep on file, and abide by a plan of operation approved by the Utah Department of Environmental Quality (UDEQ) Executive Secretary. The plan of operation shall include the following:
 - A. Intended Schedule of Construction
 - B. Description of on-site solid waste handling procedures
 - C. Schedule for conducting inspections and monitoring the facility
 - D. Contingency plans in the event of a fire or explosion
 - E. Contingency plans for other releases such as failure of run-off containment system
 - F. Plan to control fugitive dust
 - G. Procedures for excluding the receipt of hazardous waste or waste containing PCBs
 - H. Closure and post-closure care plans
 - I. Cost estimates and financial assurance
 - J. General training and safety plan for site operators
2. Maintain and keep on-site or at a location approved by the UDEQ Executive Secretary the following:
 - A. Weights or volumes, number of vehicles entering and the types of wastes received each day
 - B. Deviations from the approved plan of operation
 - C. Training and notification procedures
 - D. Inspection log
 - E. Closure and post-closure care plans
 - F. Cost estimates and financial assurance documentation
3. Prepare an annual report and place the report in the facility's operating record. The annual report shall cover facility activities during the previous year and must include the following information:

- A. *Name and address of facility*
 - B. *Calendar year covered by the report*
 - C. *Annual quantity in tons or cubic yards and estimated in-place density in pounds per cubic yard of solid waste handled*
 - D. *Annual update of the required financial assurance mechanism*
 - E. *Training programs or procedures completed*
4. *Inspect the landfill facility to prevent malfunctions and deterioration, operator errors, and discharges which may cause or lead to the release of wastes to the environment or to a threat to human health. These inspections must be conducted with sufficient frequency (no less than quarterly) to identify problems in time to correct them before they harm human health or the environment. The inspection log or summary shall include the following:*
- A. *Date and time of inspection*
 - B. *Printed name and handwritten signature of the inspector*
 - C. *Notation of observations made and the date and nature of any repairs or corrective action*
 - D. *Logs must be kept for a minimum of three years*
5. *Design the landfill to minimize the acceptance of liquids and control storm water run-on/run-off.*
6. *Provide for the following:*
- A. *Fencing at the property boundary or the use of other artificial or natural barriers to impede entry by the public and large animals. A lockable gate shall be required at the entry to the landfill.*
 - B. *Erecting a sign at the facility entrance that identifies at least the name of the facility, unacceptable materials, and an emergency telephone number.*
 - C. *Adequate fire protection to control any fires that may occur at the facility.*
 - D. *Preventing the potential harborage in active areas of rat and other vectors*
 - E. *Minimize the size of the unloading area and working face as much as possible*
 - F. *Approach and exit roads of all-weather construction, with traffic separation and traffic control on-site and at the site entrance*
 - G. *Communication, such as telephone or radio, between employees working at the landfill and management offices to handle emergencies.*

7. *Prevent the disposal of unauthorized waste by ensuring that at least one person is on site during hours of operation and shall prevent unauthorized disposal during off-hours by controlling entry.*
8. *Employ measures to prevent emissions of fugitive dusts, when weather conditions or climate indicate that transport of dust off-site is liable to create a nuisance.*
9. *Cover timber, wood, and other combustible waste with a minimum of six inches of soil, or equivalent, to avoid a fire hazard.*
10. *Plans and a statement of fact concerning the location of any disposal site shall be recorded as part of the record of title with the county recorder not later than 60 days after certification of closure.*
11. *Close the facility in a manner that will:*
 - A. *Minimize the need for maintenance*
 - B. *Minimize or eliminate threats to human health and the environment from escape of solid waste constituents, leachate, gases, or contaminated run-off to the groundwater, surface water, or the atmosphere*
 - C. *Prepare the facility for the post-closure period*
12. *Develop, keep on file and abide by a closure plan approved by the UDEQ Executive Secretary.*
13. *The closure plan shall project time intervals at which sequential partial closure, if applicable, is to be implemented and identify closure cost estimates and projected fund withdrawal intervals for the associated closure costs from the approved financial assurance instrument.*
14. *Landfills shall be closed by:*
 - A. *Leveling the waste*
 - B. *Covering the waste with a minimum of 2 feet of soil, including six inches of topsoil*
 - C. *Contouring the cover to minimum 2 percent surface slopes and maximum 33 percent side slopes, except where integrity and erosion control can be demonstrated at steeper slopes*
15. *Notify the UDEQ Executive Secretary of the intent to implement the closure plan in whole or part, 60 days prior to the project final receipt of waste at the unit or facility.*
16. *Commence implementation of the closure plan, in part or whole, within 30 days after final elevation is attained in part or all of the facility closure plan. Closure activities shall be completed within 180 days from their starting time.*
17. *Within 90 days following completion of closure, submit to the UDEQ Executive Secretary the following:*

- A. *Facility or unit closure plan sheets signed by a professional engineer registered in the state of Utah, and modified as necessary to represent as-built changes to final closure construction as approved in the closure plan*
 - B. *Certification by the owner or operator and a professional engineer registered in the state of Utah that the site or unit has been closed in accordance with the approved closure plan.*
18. *Provide post-closure activities for facility maintenance and monitoring of gases, land, and water for 30 years or as long as the UDEQ Executive Secretary determine is necessary for the facility to become stabilized and to protect human health and the environment.*
19. *Develop, keep on file, and abide by a post-closure plan. The post-closure plan shall project time intervals at which post-closure activities are to be implemented and identify post-closure cost estimates and project fund withdrawal intervals from the selected financial assurance instrument.*
20. *Commence post-closure activities after closure activities have been completed.*
21. *Submit a certification to the UDEQ Executive Secretary when post-closure activities are complete, signed by the owner or operator and a professional engineer registered in the state of Utah stating why post-closure activities are no longer necessary.*

The Hunter Plant will continue to comply with the rules and regulations stated in this section throughout the life of the landfill. A complete copy of the Hunter Power Plant *Landfill Operations Plan* is located in Appendix D.

2.2.14 Additional Site Information (R315-302-2(2)(o))

Additional site specific information concerning the landfill may be requested by the Utah DSHW. If this situation occurs, PacifiCorp will supply the information to the DSHW as soon as practicable.

3.0 PART III – TECHNICAL REPORT

3.1 MAPS

3.1.1 Topographic Map (R315-310-4(2)(a)(i))

Plan Sheet 3 (Ash Pile Development, 30-Year Plan, General Arrangement) is a detailed topographic map, with design details included to show important features of the Hunter landfill unit. The scaled map shows the boundaries of the Primary and Secondary Industrial Waste Sites, design and location of run-on/runoff control structures, as well as site cross-sections, survey control data, and miscellaneous site details.

3.1.2 U.S.G.S. Topographic Map (R315-310-4(2)(a)(ii))

The most recent USGS 7 ½ minute series topographic map (Castle Dale, Utah) is also included as Plan Sheet 1, showing the waste facility boundary, property boundary, existing utilities and structures within ¼-mile of the site, and the direction of prevailing winds.

3.2 ENGINEERING REPORT

3.2.1 Landfill Design & Operation Details (R315-310-3(1)(b))

This section addresses cell design, cover design, fill methods, and elevation of the final cover, including plans and drawings.

Industrial wastes are placed in a specific area in the north-central portion of the ash embankment area, designated the Primary Industrial Waste Site. This designated site is approximately 6.2 acres, and will be filled to the same final elevation as the ash disposal. At this time, no ash disposal is planned to take place over the top of this area (See Plan Sheet 3 – Hunter Plant Ash Pile Development, 30-Year Plan, General Arrangement). After the Primary Industrial Waste Site has been filled to capacity, a Secondary Industrial Waste Site has also been designated near the north boundary of the embankment area. This area is approximately 9.8 acres, and will provide additional industrial waste capacity at the landfill.

Also refer to Plan Sheet 5 (30-Year Plan, Cell Layout #1), Plan Sheet 6 (30-Year Plan, Cell Layout #2), and Plan Sheet 7 (30-Year Plan, Miscellaneous Details) for landfill development and design details.

3.2.2 Run-Off/Run-On Control Systems (R315-310-5(2)(b))

The existing storm water retention pond provides the necessary requirements for controlling storm water runoff from the active phases of the landfill. The storm water management plan encompasses the entire landfill, not just the industrial waste areas. The intent of the storm water control system is to retain all storm water onsite, with only

emergency discharge offsite. Precipitation that falls on the landfill area is transmitted to ditches along the perimeter of the landfill, then to the detention pond east of the landfill. To promote runoff, as opposed to infiltration of rainfall into the wastes, the waste surface should be sloped at a minimum of 2 percent to the northeast. Any potential run-on from offsite areas should be collected in swales or ditches at the landfill boundary and transmitted around the perimeter of the landfill to the detention basin or back to its existing drainage.

The detention pond is designed to contain the required potential precipitation for the entire landfill. Runoff calculations for both precipitation and snow melt were performed. The Utah Department of Natural Resources, Dam Safety Division was contacted. The State requires using a 6-hour, 100-year storm event and 100-year snow total for runoff and snowmelt calculations. The data for these two criteria were obtained from the National Weather Service.

The detention pond should be cleaned out as necessary when they begin to fill with sediment or ash. Monitoring of the storm water detention basins can be accomplished by placing a stake or staff gauge to monitor the sediment level.

3.3 CLOSURE PLAN (R315-310-3(1)(h)) and (R315-310-5(2)(c))

3.3.1 Closure Schedule (R315-310-4(2)(d)(i))

A 30-year design life was established for the entire landfill in 1997. The Primary Industrial Waste Site is estimated to be filled to capacity in 2006, and the Secondary Industrial Waste Site will last until end of the landfill life in 2027.

3.3.2 Final Cover Design (R315-310-4(2)(c)(iii)) and (R315-305-5(5))

The regulations for final cover systems for industrial landfills in Utah consist of 2 feet of soil cover including 6 inches of topsoil to support vegetative cover. This standard cover system only applies to the plant waste areas that will be permitted as an industrial landfill (Primary and Secondary). The recommended cover system for the Primary and Secondary Industrial Waste Sites are 18 inches of borrow cover soil and 6 inches of topsoil, for a total of 24 inches. The current cover design specifies that the 24-inch soil cover will be purchased from an off-site source. The first 18-inches of cover will be compacted to a permeability of no less than 1×10^{-5} cm/sec. Hay mulch from the plant's research farm will be incorporated into the top 6-inches of soil to promote vegetation growth. Should additional ash disposal cells be proposed over the top of the industrial cells, the final cover design may be revised.

The cover systems will be fertilized and seeded to promote the growth of vegetation that will minimize erosion and maintenance requirements for the cover system. Specific seeding and fertilizing recommendations are summarized in the Landfill Closure section of the *Landfill Operations Plan*, located in Appendix D.

Once industrial landfill cells reach capacity, a minimum of 2-feet of bottom ash will be placed over the cells as an intermediate cover. The integrity of the intermediate cover will be maintained by plant personnel. This cover will minimize dusting problems during embankment construction and operation of the ash landfill. Final closure of all cells will be completed after the ash landfill reaches capacity.

3.3.3 Site Capacity (R315-310-4(2)(d)(ii))

A 30-year design life was established for the entire landfill in 1997. The Primary Industrial Waste Site is estimated to be filled to capacity in 2006, and the Secondary Industrial Waste Site will last until end of the landfill life in 2027. The average volume of industrial wastes placed in the landfill is 2020 cubic yards per year, based on data from 1999 through 2002.

3.3.4 Final Regulatory Inspection (R315-310-4(2)(d)(iii))

After all closure operations are complete, a final inspection will be conducted by the appropriate regulatory agencies.

3.4 POST – CLOSURE CARE PLAN (R315-310-3(1)(h))

3.4.1 Site Monitoring (R315-310-4(2)(e)(i))

PacifiCorp will provide care for the landfill facility following the date of final completion of closure in a manner that assures the facility and facility structures are maintained and operated as intended. The post-closure plan will include operation and maintenance of both the industrial and ash portions of the landfill. The facility will be inspected quarterly for evidence of run-on, erosion of the final cover, and ponding of water on the final cover. Appropriate actions to correct these conditions will be undertaken and may include construction of drainage ditches or diversion dikes to prevent run-on, repair of erosion damage, as well as repair and grading of areas of ponding water on the final cover.

PacifiCorp will assure that a healthy vegetative cover is established and maintained over the site. The facility will be inspected quarterly for areas of poor vegetative cover. Such areas will be prepared and reseeded in order to establish adequate vegetative cover. Annual fertilization of the facility will be undertaken at least until the vegetative cover is established sufficiently to render such maintenance unnecessary.

Drainage ditches and the storm water retention pond will be maintained until the vegetative cover is established sufficiently to render such maintenance unnecessary. Drainage ditches will be inspected quarterly for evidence of restricted flow caused by erosion or sedimentation. Such blockages will be removed expeditiously. The storm water retention pond will be inspected quarterly for evidence of sedimentation.

3.4.2 Title and Land Use Changes/Zoning Restrictions (R315-310-4(2)(e)(ii))

At this time, the anticipated land use following closure is Hunter Plant Ash Landfill expansion, or wildlife habitat. Any alternative land uses will be submitted to the department for approval prior to initiation of construction or development.

A sample deed notice is outlined below:

CAUTION! THE PROPERTY MORE COMPLETELY DESCRIBED BELOW HAS BEEN USED FOR AN INDUSTRIAL SOLID WASTE DISPOSAL FACILITY. THE COMPLETE LEGAL DESCRIPTION IS:

Insert complete legal description here

DISPOSED MATERIALS INCLUDE SCRAP METAL, WOOD, PAPER, DEMOLITION WASTE, PLASTIC PRODUCTS, FOOD SCRAPS, AND MISCELLANEOUS PLANT INDUSTRIAL WASTE.

Any changes to the record of title, land use, or zoning restrictions will be submitted to the department for approval prior to construction or development.

3.4.3 Post-Closure Maintenance (R315-310-4(2)(e)(iii))

PacifiCorp will maintain the approved final contours and drainage system of the site to minimize precipitation run-on, minimize erosion, optimize drainage of precipitation, and provide a surface drainage system which in no way adversely affects proper drainage from adjacent lands. The facility will be inspected quarterly for evidence of run-on, erosion of the final cover, and ponding of water on the final cover. Appropriate actions to correct these conditions will be undertaken and may include construction of drainage ditches or diversion dikes to prevent run-on, repair of erosion damage, as well as repair and grading of areas to eliminate ponding water on the final cover.

PacifiCorp will assure that a healthy vegetative cover is established and maintained over the site. The facility will be inspected quarterly for areas of poor vegetative cover. Such areas will be prepared and reseeded in order to establish adequate vegetative cover. Annual fertilization of the facility will be undertaken at least until the vegetative cover is established sufficiently to render such maintenance unnecessary.

Drainage ditches and the storm water holding basin will be maintained until the vegetative cover is established sufficiently to render such maintenance unnecessary. Drainage ditches will be inspected quarterly for evidence of restricted flow caused by erosion or sedimentation. Such blockages will be removed expeditiously. The storm water holding basin will be inspected quarterly for evidence of sedimentation.

3.4.3 Contact Information (R315-310-4(2)(e)(vi))

The primary contact for the Hunter Landfill is listed below:

NAME	Johnny Pappas
MAILING ADDRESS	P.O. Box 569 Castle Dale, UT 84513
PHYSICAL ADDRESS	Hwy 10, South of Castle Dale Castle Dale, UT 84513
TELEPHONE NUMBER	435-748-6525

3.5 FINANCIAL ASSURANCE (R315-310-3(1)(j))

PacifiCorp has developed Closure and Post-Closure cost estimates for the Hunter Power Plant Industrial Solid Waste Landfill, pursuant to Utah DSHW regulations and associated guidance documents. Estimates are provided for a third-party to conduct and complete closure activities.

3.5.1 Closure Cost Calculations (R315-310-4(2)(d)(iv))

Closure costs were calculated, in current dollars, for a third party to conduct and complete closure activities at the landfill. A Landfill Closure Cost Estimate Worksheet was developed using the Utah DSHW *Preparation of Solid Waste Facility Closure and Post-Closure Cost Estimates* Guidance Document. The total closure costs for the Hunter Industrial Waste landfill is **\$885,726.39.** The worksheet is included in Appendix F, along with detailed reference information and assumptions used to develop the costs.

3.5.2 Post-Closure Cost Calculations (R315-310-4(2)(e)(iv))

Post-closure costs were calculated, in current dollars, for a third party to conduct and complete post-closure activities at the landfill. A Landfill Closure Cost Estimate Worksheet was developed using the Utah DSHW *Preparation of Solid Waste Facility Closure and Post-Closure Cost Estimates* Guidance Document. The total post-closure costs for the Hunter Industrial Waste landfill is **\$902,154.00.** The worksheet is included in Appendix F, along with detailed reference information and assumptions used to develop the costs.

3.5.3 Financial Assurance Mechanism (R315-309-1(1))

A corporate financial test agreed upon between PacifiCorp and the Utah DSHW will be used to ensure that closure and post-closure activities are completed. Financial Assurance information is located in Appendix G.

4.0 REFERENCES

Hunter Power Plant; *Industrial Landfill Operations Manual*.

Hunter Power Plant; *Emergency Chemical Spill Contingency Plan*.

Utah Division of Solid and Hazardous Waste; *Solid Waste Rules (Section R315-301 through 320)*.

Utah Division of Solid & Hazardous Waste-Solid Waste Program; Various Guidance Documents

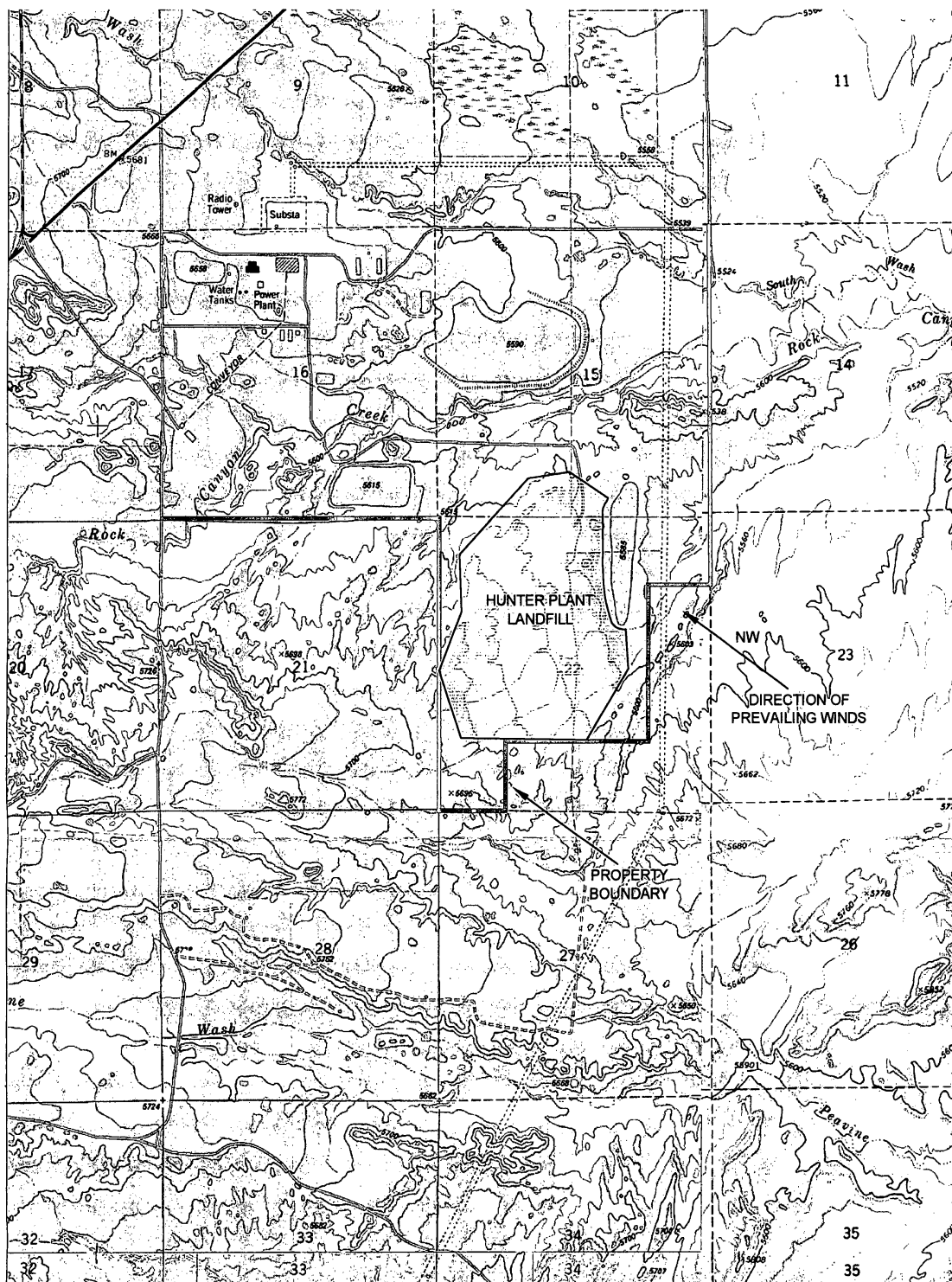
Discussions with PacifiCorp personnel.

SECTION

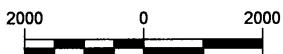
2

LIST OF PLAN SHEETS

Plan Sheet 1	USGS Topographic Map (Castle Dale, UT)
Plan Sheet 2	Emery County Zoning Map
Plan Sheet 3	Hunter Plant Ash Development, 30-Year Plan, General Arrangement
Plan Sheet 4	Hunter Plant Ash Development, Area Plan
Plan Sheet 5	Typical Industrial Waste Cross Sections
Plan Sheet 6	Secondary Industrial Waste Cell – Typical Operation

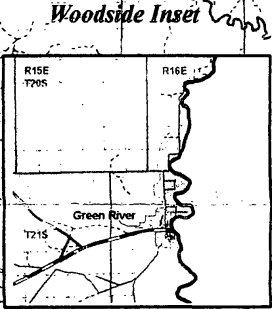
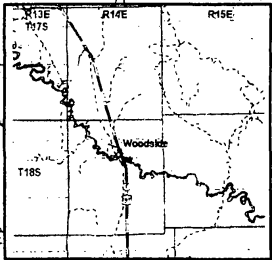
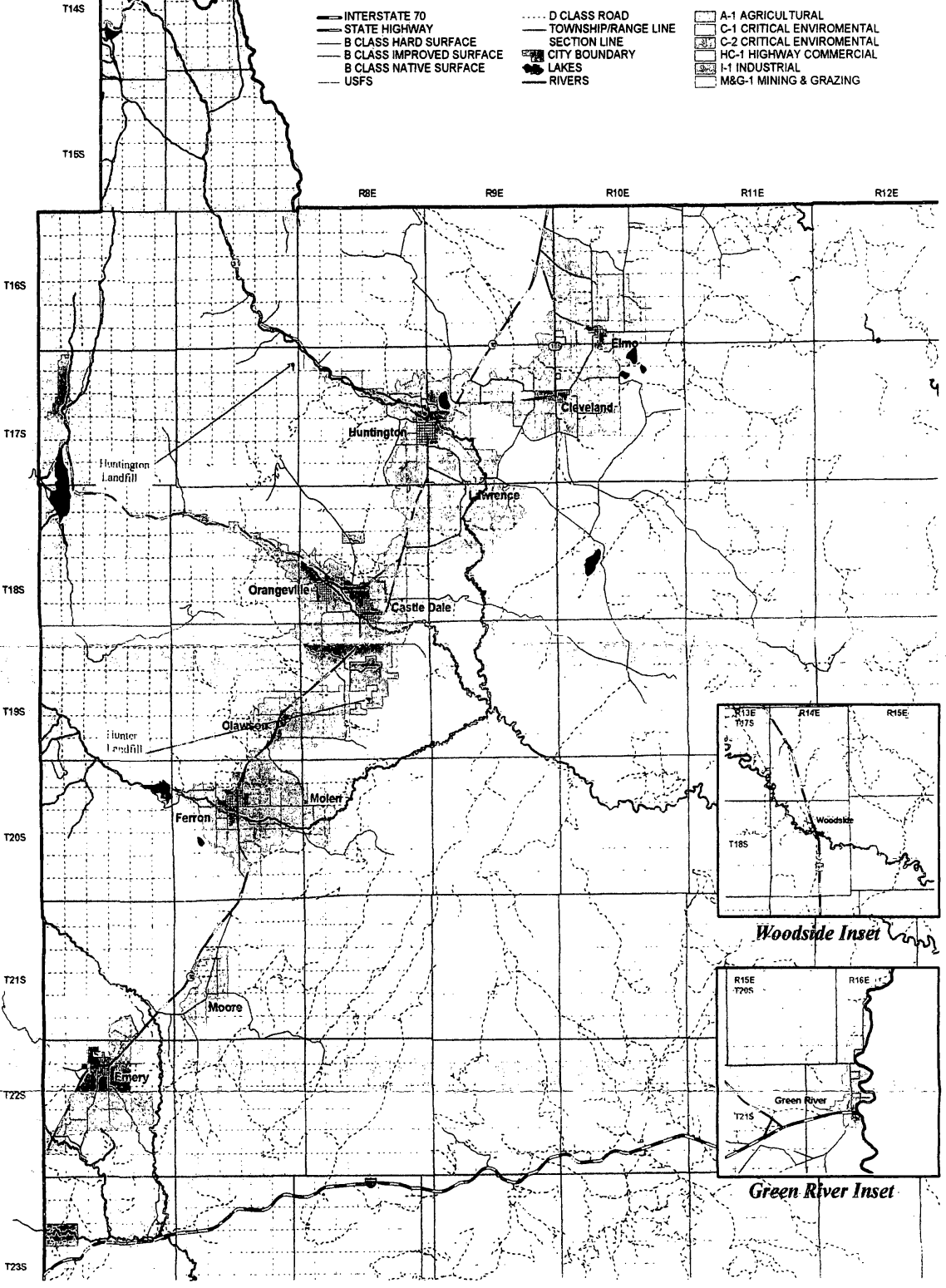


SCALE IN FEET



Emery County

ZONING BOUNDARIES



- INTERSTATE 70
- STATE HIGHWAY
- B CLASS HARD SURFACE
- B CLASS IMPROVED SURFACE
- B CLASS NATIVE SURFACE
- USFS
- D CLASS ROAD
- TOWNSHIP/RANGE LINE
- SECTION LINE
- CITY BOUNDARY
- LAKES
- RIVERS
- A-1 AGRICULTURAL
- C-1 CRITICAL ENVIROMENTAL
- C-2 CRITICAL ENVIROMENTAL
- HC-1 HIGHWAY COMMERCIAL
- I-1 INDUSTRIAL
- M&G-1 MINING & GRAZING

Unofficial Zoning Map

February 2007
 Adopted At: _____ day of _____
 Chairman Board of Commissioners _____
 County Clerk _____

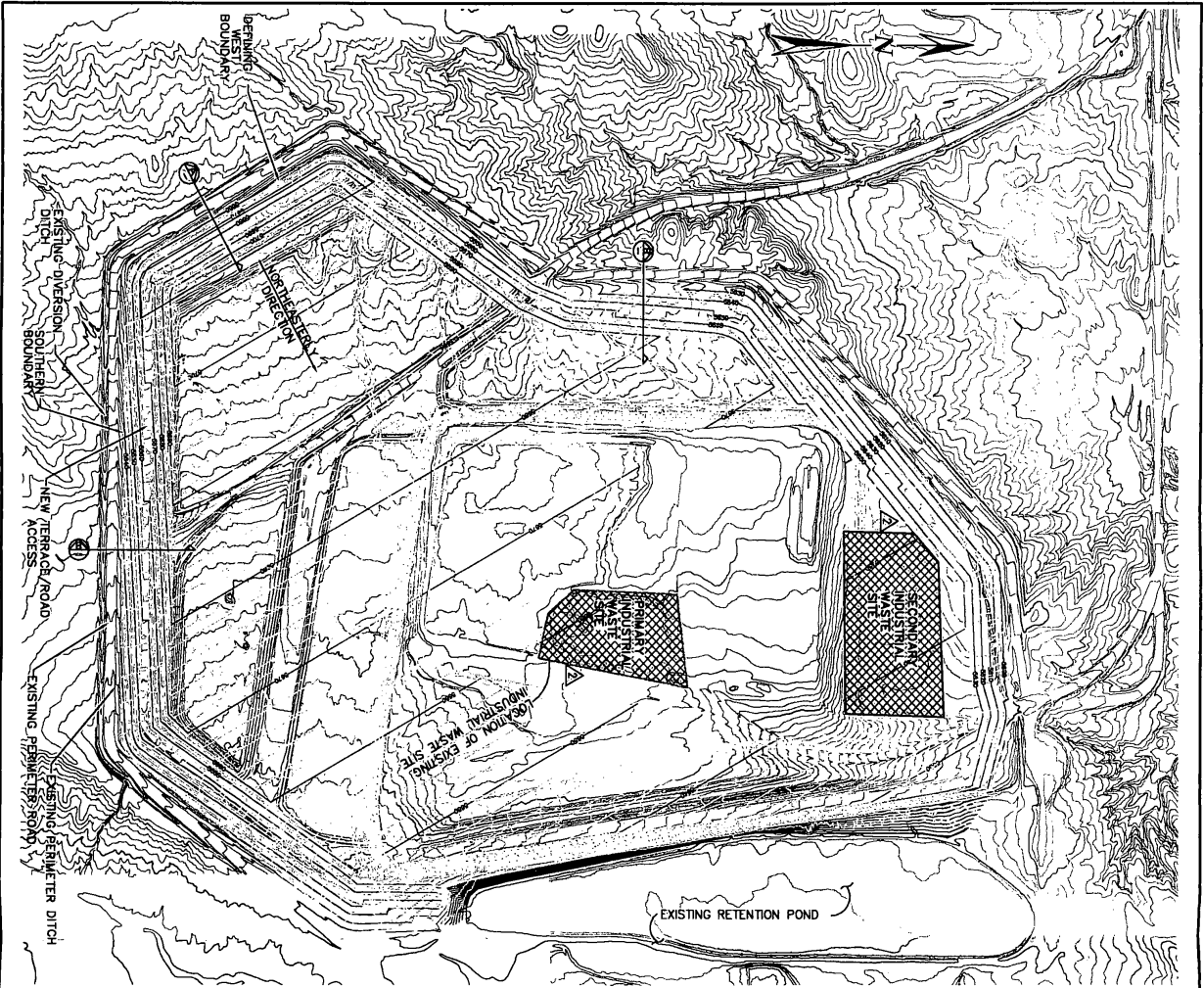
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7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Section Numbering System



2 0 2 4 Miles

EMERY
 COUNTY
 GIS DEPARTMENT
 For further information contact
 Bryant Anderson (435)381-5576
 95 East Main Street
 Castle Dale, UT 84513
 bryant@emery.co.emery.ut.us



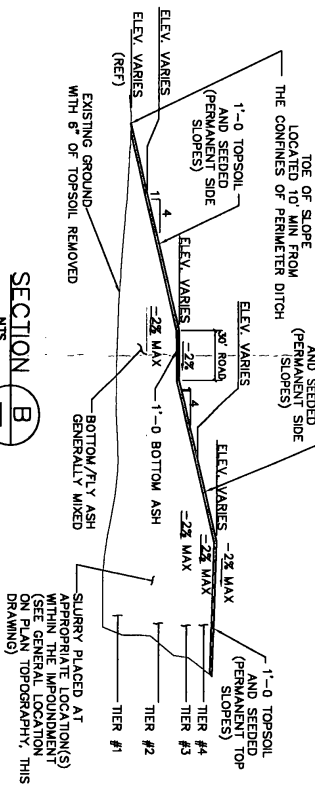
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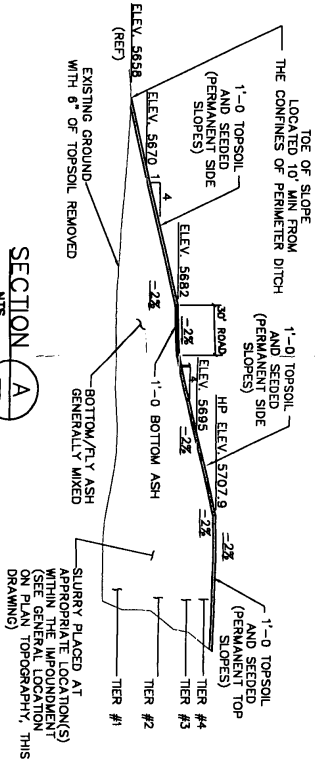
PRIMARY INDUSTRIAL WASTE SITE LOCATION				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	301346.54	2140042.65	5659.42	NE COR
2	301280.72	2139591.87	5667.71	NW COR
3	300760.36	2139570.61	5666.42	SW COR
4	300627.56	2139683.66	5666.82	S COR
5	300578.90	2139901.35	5665.69	SE COR

SECONDARY INDUSTRIAL WASTE SITE LOCATION				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	302862.85	2140184.88		NE CORNER
2	302828.73	2136300.85		NW CORNER
3	302146.96	2136286.22		SW CORNER
4	302158.78	2140189.21		SE CORNER

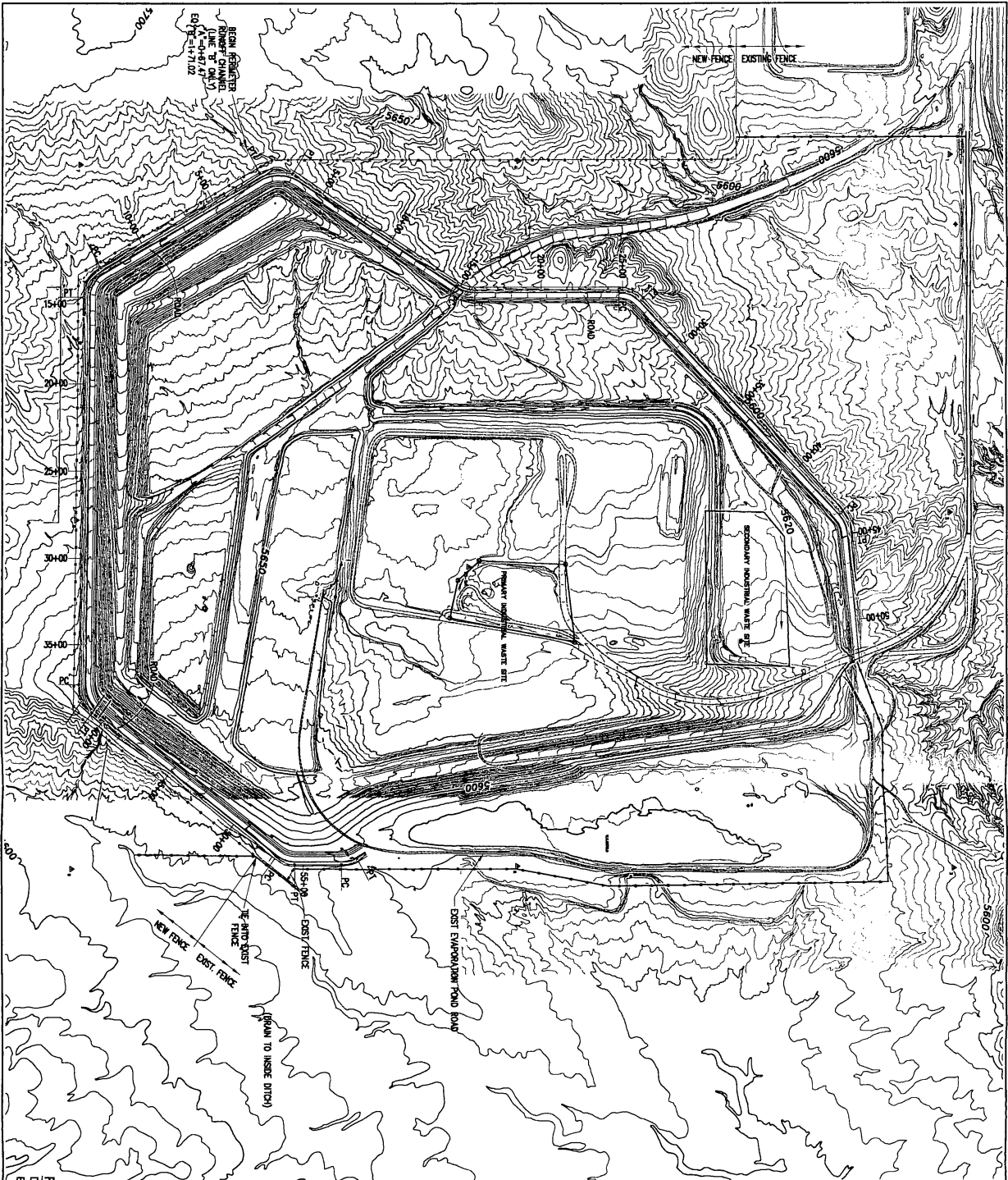
SECTION B



SECTION A



PACIFICORP ENERGY
HUNTER
ASH PILE DEVELOPMENT
30 YEAR PLAN
GENERAL ARRANGEMENT
HUNTER-MET_30yrPlan
DATE: 4/20/06
PLAN SHEET 3



PRIMARY INDUSTRIAL WASTE SITE LOCATION

This site has been used continuously since July 1989

POINT	NORTHING	EASTING	DESCRIPTION
1	301,346.54	2,140,042.65	NE CORNER
2	301,280.72	2,139,591.67	NW CORNER
3	300,760.36	2,139,570.61	SW CORNER
4	300,627.56	2,139,683.69	S CORNER
5	300,578.90	2,139,901.35	SE CORNER

SECONDARY INDUSTRIAL WASTE SITE LOCATION

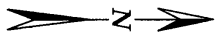
This site will be used after the primary site is full.

POINT	NORTHING	EASTING	DESCRIPTION
1	302,662.95	2,140,184.89	NE CORNER
2	302,628.73	2,139,300.65	NW CORNER
3	302,146.96	2,139,286.22	SW CORNER
4	302,159.78	2,140,169.21	SE CORNER

SURVEY CONTROL POINTS COORDINATES

1	N 303,650.15 E 2,137,230.87 ELEV. 5583.75	2	N 303,646.12 E 2,139,298.83 ELEV. 5582.48	3	N 303,659.28 E 2,141,350.82 ELEV. 5589.85
4	N 300,698.97 E 2,137,282.87 ELEV. 5630.33	5	N 300,683.77 E 2,141,333.73 ELEV. 5678.78	6	N 300,683.10 E 2,141,346.08
7	N 298,308.89 E 2,137,291.56 ELEV. 5613.84	8	N 298,294.53 E 2,138,123.99 ELEV. 5628.53	9	N 298,290.10 E 2,141,346.08

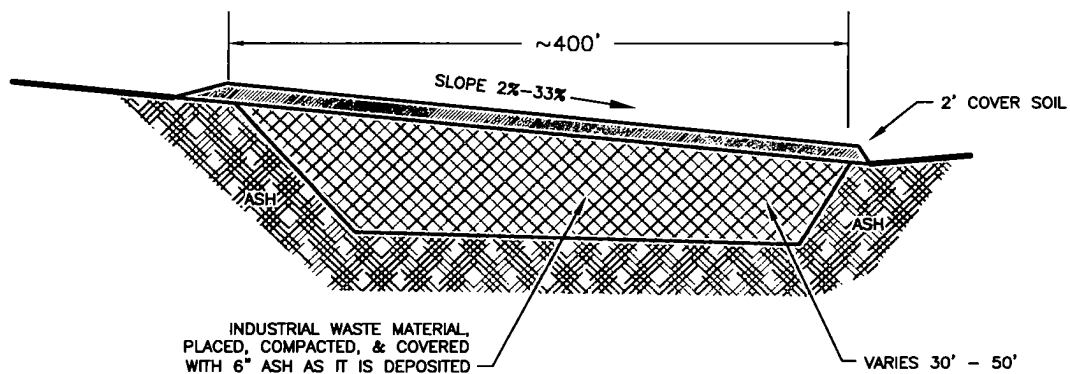
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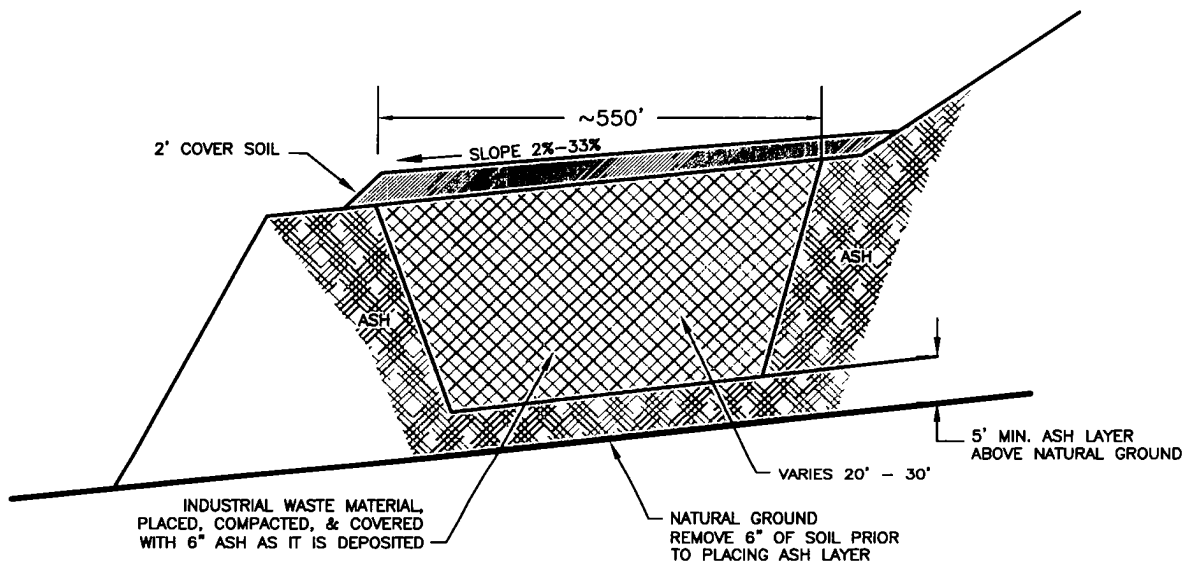
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ER-0755 1'-10'





PRIMARY INDUSTRIAL WASTE LANDFILL

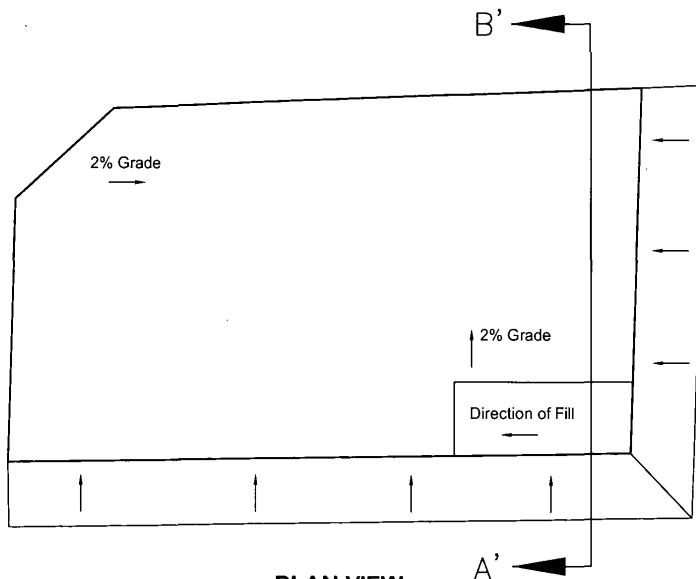


SECONDARY INDUSTRIAL WASTE LANDFILL

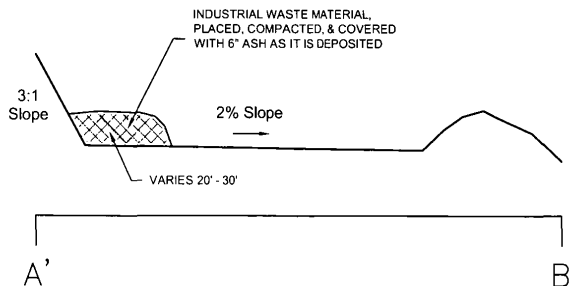
NOT TO SCALE

NOTE: Construction and operation of the secondary industrial waste landfill will commence when the primary site is filled to capacity.

 WATER & ENVIRONMENTAL TECHNOLOGIES, PC	
 PACIFICORP ENERGY <small>A DIVISION OF PACIFICORP</small>	HUNTER POWER PLANT
TYPICAL INDUSTRIAL WASTE CROSS-SECTION	
HNTR-A1.DWG DATE: 4/20/06	PLAN SHEET 5





PLAN VIEW



PROFILE VIEW

NOTES:

1. Runoff is routed out the Northeast corner of the landfill and into the storm water retention pond.
2. Waste will be placed in the Southeast corner of the site and move in a Westerly direction along the slope to the Western boundary. Waste will then be placed in an Easterly direction and the process will repeat itself.
3. Profile View not drawn to scale. Plan View scale is 1" = 200'.

 WATER & ENVIRONMENTAL TECHNOLOGIES, PC	
 PACIFICORP ENERGY <small>A DIVISION OF PACIFICORP</small>	HUNTER POWER PLANT
SECONDARY INDUSTRIAL WASTE SITE TYPICAL OPERATION	
Hunter-WET_AshPile DATE: 4/20/06	PLAN SHEET 6

SECTION

3

APPENDIX A.
Permit Application Form

UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY

DIVISION OF SOLID AND HAZARDOUS WASTE

APPLICATION FOR A PERMIT TO OPERATE A CLASS III LANDFILL

The applicant shall submit an original permit application, which includes a general report and a technical report, to:

Dennis R. Downs, Director
Division of Solid and Hazardous Waste
Utah Department of Environmental Quality
PO Box 144880
Salt Lake City, Utah 84114 - 4880

(Note: When the application is determined to be complete, submittal of the original complete permit application and one copy of the complete application will be required.)

PART I - GENERAL INFORMATION

1. Name of Facility Hunter Plant

2. Site Location Highway 10, South of Castle Dale

3. Facility Owner PacifiCorp

4. Facility Operator PacifiCorp

5. Contact Person Quinn Healy

Address P.O. Box 569

Castle Dale, UT 84513

Telephone (435) 748-6596

6. Type of Facility:

☐

Class IIIa Landfill

☒

Class IIIb Landfill

7. Type of Application

☐

Initial Application

☒

Permit Renewal

8. Property Ownership

☒ Presently owned by applicant

☐ To be purchased by applicant

☐ To be leased by applicant

Property owner (if different from applicant)

Name _____

Address _____

Telephone _____

9. Certification of submitted information.

(Name of Official)

(Title)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: _____ Date _____

SUBSCRIBED AND SWORN to before This _____ day of _____, 20____

My commission expires on the _____ day of _____, 20____

Notary Public in and for

(SEAL) _____ County, Utah.

Important Note: The following checklist is for the permit application and addresses only the requirements of the Division of Solid and Hazardous Waste. Other federal, state, or local agencies may have requirements that the facility must meet. The applicant is responsible to be informed of, and meet, any applicable requirements. Examples of these requirements may include obtaining a conditional use permit, a business license, or a storm water permit. The applicant is reminded that obtaining a permit under the *Solid Waste Permitting and Management Rules* does not exempt the facility from these other requirements.

An application for a permit to construct and operate a landfill is the documentation that the landfill will be located, designed, constructed, and operated to meet the requirements of Rules R315-302, R315-303, R315-308, R315-309, and R315-315 of the *Utah Solid Waste Permitting and Management Rules* and the *Utah Solid and Hazardous Waste Act* (UCA 19-6-101 through 123). The application should be written to be understandable by regulatory agencies, landfill operators, and the general public. The application should also be written so that the landfill operator, after reading it, will be able to operate the landfill according to the requirements with a minimum of additional training.

Copies of the *Solid Waste Permitting and Management Rules*, the *Utah Solid and Hazardous Waste Act*, along with many other useful guidance documents can be obtained by contacting the Division of Solid and Hazardous Waste at 801-538-6170. Most of these documents are available on the Division's web page at www.eq.stat.ut.us/eqshw/dshw-1.htm. Guidance documents can be found at the solid waste section portion of the web page.

When the application is determined to be complete, the original complete application and one copy of the complete application are required along with an electronic copy.

CHECKLIST OF ADDITIONAL INFORMATION REQUIRED

(Please see Section R315-310-5 of the *Utah Solid Waste Permitting and Management Rules*)

PART II - GENERAL REPORT

INTRODUCTION

- ☒ Completed PART I - GENERAL INFORMATION (R315-310-3(1)(a))
- ☒ General description of the facility (R315-310-3(1)(b))
- ☒ Legal description; proof of ownership, lease agreement, or other mechanism; latitude and longitude of the site; and land use and zoning of surrounding area (R315-310-3(1)(c))

☒ The types of waste and area served by the facility (R315-310-3(1)(d))

☒ A demonstration that the landfill is not a commercial landfill

PLAN OF OPERATION (R315-310-3(1)(e))

☒ An intended schedule of construction (R315-302-2(2)(a))

☒ A description of on-site waste handling procedures and an example of the form that will be used to record the weights or volumes of waste received (R315-302-2(2)(b) and R315-310-3(1)(f))

☒ A schedule for conducting inspections and monitoring and examples of the forms used to record the results of the inspections and monitoring (R315-302-2(2)(c) , R315-302-2(5)(a), and R315-310-3(1)(g))

☒ Contingency plans in the event of a fire or explosion (R315-302-2(2)(d))

☒ Corrective action programs to be initiated if ground water is contaminated (R315-302-2(2)(e))

☒ Contingency plans for other releases, e.g. explosive gases or failure of run-off collection system (R315-302-2(2)(f))

☒ A plan to control fugitive dust generated from roads, construction, general operations, and covering the waste (R315-302-2(2)(g))

☒ Description of maintenance of installed equipment (R315-302-2(2)(h))

☒ Procedures for excluding the receipt of Regulated hazardous or PCB containing waste (R315-302-2(2)(i))

☒ Procedures for controlling disease vectors (R315-302-2(2)(j))

☒ A plan for alternative waste handling (R315-302-2(2)(k))

☒ A general training and safety plan for site operations (R315-302-2(2)(n))

☒ Any other items not covered above as to how the facility will meet the requirements of Rule R315-304 (R315-310-5(2)(e))

☒ Any other site specific information pertaining to the plan of operation required by the Executive Secretary (R315-302-2(2)(o))

PART III TECHNICAL REPORT

MAPS

- ☒ Topographic map drawn to the required scale and contours showing the boundaries of the landfill unit; design and location of the run-on/run-off control structures; and the borrow and fill areas (R315-310-4(2)(a)(i))
- ☒ Most recent U.S. Geological Survey topographic map, 7-1/2 minute series, showing the waste facility boundary; the property boundary; surface drainage channels; existing utilities and structures within one-fourth mile of the site; and the direction of the prevailing winds (R315-310-4(2)(a)(ii))

ENGINEERING REPORT - PLANS, SPECIFICATIONS, AND CALCULATIONS

- ☒ Cell design, cover design, fill methods, elevation of final cover including plans and drawings (R315-310-3(1)(b))
- ☒ Design and location of run-on and run-off control systems (R315-310-5(2)(b))

CLOSURE PLAN (R315-310-3(1)(h) and R315-310-5(2)(c))

- ☒ Closure schedule (R315-310-4(2)(d)(i))
- ☒ Design of final cover (R315-310-4(2)(c)(iii) and R315-305-5(5))
- ☒ Capacity of site in volume and tonnage (R315-310-4(2)(d)(ii))
- ☒ Final inspection by regulatory agencies (R315-310-4(2)(d)(iii))

POST-CLOSURE CARE PLAN (R315-310-3(1)(h))

- ☒ Site monitoring, if required (R315-310-4(2)(e)(i))
- ☒ Changes to record of title, land use, and zoning restrictions (R315-310-4(2)(e)(ii))
- ☒ Maintenance activities to maintain cover and run-on/run-off control systems (R315-310-4(2)(e)(iii))
- ☒ List the name, address, and telephone number of the person or office to contact about the

facility during the post-closure care period (R315-310-4(2)(e)(vi))

FINANCIAL ASSURANCE (R315-310-3(1)(j))

- ☒ Identification of closure costs including cost calculations (R315-310-4(2)(d)(iv))
- ☒ Identification of post-closure care costs including cost calculations (R315-310-4(2)(e)(iv))
- ☒ Identification of the financial assurance mechanism that meets the requirements of Rule R315-309 and the date the mechanism will become effective (R315-309-1(1))

SPECIAL REQUIREMENTS FOR A CLASS IIIa LANDFILL (R315-304-5(7)(b))

- ☐ A geohydrological assessment of the site (R315-310-4(2)(b))
- ☐ An engineering report, plans, specifications, and calculations (R315-310-4(2)(c))
- ☐ A ground water monitoring plan (R315-304-5(4) and R315-310-4(2)(c)(vi))
- ☐ A closure plan that meets the requirements of R315-303-3(4) (R315-304-5(2)(a))

Revision date February 21, 2002

SECTION

4

APPENDIX B
Legal Documentation & Proof of Ownership

237509

INA LEE MAGNUSON of Emery County, Utah, Grantor, hereby conveys and warrants to UTAH POWER & LIGHT COMPANY, a corporation, Grantor, for the sum of Ten Dollars (\$10.00) and other good and valuable consideration, the following described tracts of land located in Emery County, Utah:

Beginning 17 rods West of the center of the Southwest quarter of Section 16, Township 19 South, Range 8 East, Salt Lake Meridian; thence North 33 rods; thence East 40 rods; thence South 40 rods; thence West 40 rods; thence North 7 rods to beginning.

Beginning 60 rods North of the Southwest corner of Section 16, Township 19 South, Range 8 East, Salt Lake Meridian; thence North 125.36 rods; East 10 chains, South 18°30' East 18.62 chains; South 10 chains, East to the east line of the SW $\frac{1}{4}$ of said Section; thence South to a point 80 rods East of the beginning; thence West 80 rods to the beginning.

Township 19 South, Range 8 East, Salt Lake Meridian, Section 21: SE $\frac{1}{4}$ SW $\frac{1}{4}$; SW $\frac{1}{4}$ SW $\frac{1}{4}$; S $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$.

Township 19 South, Range 8 East, Salt Lake Meridian:

Section 14: SW $\frac{1}{4}$ NW $\frac{1}{4}$; S 20 rods of NW $\frac{1}{4}$ NW $\frac{1}{4}$; E $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$

Section 15: N $\frac{1}{4}$ SW $\frac{1}{4}$; S $\frac{1}{4}$ NW $\frac{1}{4}$; SE $\frac{1}{4}$

Section 16: NE $\frac{1}{4}$ SE $\frac{1}{4}$ EXCEPTING therefrom that portion thereof which is in Lot 1, according to the survey of said Section 16 made by George Fox, a plat of which is on file in the office of the County Recorder of said Emery County.

SE $\frac{1}{4}$ SE $\frac{1}{4}$ and SW $\frac{1}{4}$ SE $\frac{1}{4}$ EXCEPTING therefrom that portion thereof which is within Lot 1, according to the survey of said Section 16, made by George Fox, a plat of which is on file in the office of the County Recorder of said Emery County.

N $\frac{1}{4}$ NE $\frac{1}{4}$ and part of the NW $\frac{1}{4}$ SE $\frac{1}{4}$

Beginning at the NW corner of Section 16, thence South 898.26 feet, South 83°45' East 1385 feet; North 1030 feet; West 1320 feet to beginning.

Beginning 1610 feet East and 1320 feet South of the NW corner of Section 16, thence East 1030 feet; South 1050 feet; West 530 feet; North 25°45' West 1180 feet to beginning.

S $\frac{1}{4}$ NE $\frac{1}{4}$

Beginning at the SE corner of the SW $\frac{1}{4}$, thence North 74 rods, west 80 rods; South 74 rods; East 80 rods to the place of beginning.

Beginning at the NE corner of the NW $\frac{1}{4}$ of Section 16, thence West 80 rods; South 63 rods; Southerly 10 rods; Southerly 17 rods; East 64 rods; North 80 rods to beginning.

Section 22: SW $\frac{1}{4}$ NE $\frac{1}{4}$; S $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$; S $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$; N $\frac{1}{4}$ SW $\frac{1}{4}$; NW $\frac{1}{4}$ SE $\frac{1}{4}$; SE $\frac{1}{4}$ NW $\frac{1}{4}$

Witness the hand of said Grantor, this 18th day of November, 1974.

STATE OF UTAH
COUNTY OF

On the 18th day of November, 1974, personally appeared before me Ina Lee Magnuson, the signer of the within instrument, who duly acknowledged to me that she executed the same.

Residing at:

Cleveland, Utah

Commission Expires:

Notary Public

ABS-10897

1197.17 26.1

Approved As To Form
By Real Estate Counsel
February 1, 1993

QUITCLAIM DEED

FOR A GOOD AND VALUABLE CONSIDERATION, receipt of which is hereby acknowledged THE DENVER AND RIO GRANDE WESTERN RAILROAD COMPANY, a Delaware corporation ("Grantor"), hereby remises, releases and quitclaims unto PACIFICORP, an Oregon corporation, whose address is 1407 W. North Temple, Salt Lake City, Utah 84140 ("Grantee"); that certain real property situated in the County of Emery, State of Utah, as more particularly described in the Exhibit "A" attached and hereby made a part hereof, (the "Property"), subject to all covenants, conditions, restrictions, exceptions, easements, rights-of-way, rights-of-access, agreements, reservations, encumbrances, liens and other matters as the same may be of record; any matters which would be disclosed by survey, investigation or inquiry; and any tax, assessment or other governmental lien against the Property.

Grantor reserves, from the Property, unto itself, its successors and assigns, a perpetual, exclusive easement across the entire property for installation of future Railroad facilities (including, but not limited to, rail and railroad-related equipment, facilities, transportation systems, pipelines, communication systems, telephone, telegraph, television and fiber optic lines and related equipment and appurtenances). All improvements presently existing on or hereafter constructed on the railroad easement property shall remain the personal property of the Grantor. Grantor shall be entitled to all revenues derived from all current and future agreements to which Grantor is a party affecting the railroad easement property. Grantor further reserves the right to use the railroad easement property for any other lawful purpose, including, but not limited to, entering into easements, licenses or leases with third parties for longitudinal occupancies or crossings. Grantor does further reserve unto itself, its successors and assigns, a limited right-of-way and right of access to the railroad easement property over and across the Property as described in Exhibit "A" hereto, for purposes of the use, enjoyment, maintenance, operation and access to the railroad easement property. If flyash is placed on the subject property, it will be removed at Grantee's expense down to the dirt when and where needed to build a track. Grantee acknowledges that, as of the date of this Quitclaim Deed, this railroad easement is a floating easement covering the entire Property, subject to being established at a particular location, 100 feet in width, at the time of the first installation of any tracks and/or facilities by Grantor, its successors or assigns.

Grantee, by signing below, expressly acknowledges that Grantee is buying the Property in as "AS IS" condition and that Grantee has relied upon its own independent investigation of the physical condition of the Property. Grantee hereby releases and indemnifies Grantor and Grantor's shareholders, officers, directors, agents and employees from all responsibility and liability regarding the condition (including, but not limited to, the physical condition or presence of hazardous materials), valuation or utility of the Property.

MARK G. WHITLOCK
RIGHT OF WAY & LAND ACQUISITIONS
UTAH POWER & LIGHT COMPANY
1407 West North Temple
Salt Lake City, Utah 84140

339910
Mark Whitlock
Aug. 1 10 07 AM '95
216
6035638
Nephe Juarez

IN WITNESS WHEREOF, Grantor has caused these presents to be executed in duplicate this 19th day of July, 1995.

GRANTOR:

THE DENVER AND RIO GRANDE WESTERN RAILROAD COMPANY
a Delaware corporation

By: [Signature]

(Title)

its Vice President

Attest: [Signature]

(Title)

SECRETARY

Grantee hereby accepts this deed and agrees for itself, its successors and assigns, to be bound by the conditions and covenants set forth herein and to perform all obligations of Grantee set forth herein.

DATED this 25th day of July, 1995.

GRANTEE:

PACIFICORP
an Oregon corporation

By: [Signature]

(Title)

Vice President

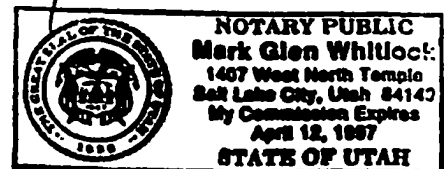
STATE OF UTAH }
COUNTY OF SALT LAKE } ss

The foregoing instrument was acknowledged before me this 25th day of July, 1995 by JOHN E. MOONEY.
Witness my hand and official seal.

My commission expires: 4-12-1997.

[S E A L]

Mark Glen Whitlock
Notary Public

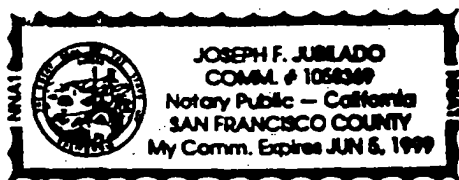


STATE OF CALIFORNIA }
COUNTY OF SAN FRANCISCO } ss.

On JULY 19 1995, before me, JOSEPH F. JUBILADO,
Notary Public, personally appeared S.D. STEEL AND T. R. O'DONNELL,
personally known to me OR proved to me on the basis of satisfactory evidence to
be the person(s) whose name(s) is/are subscribed to the within instrument and
acknowledged to me that he/she/they executed the same in his/her/their authorized
capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s), or the entity upon behalf of which the person(s) acted, executed the
instrument.

WITNESS my hand and official seal.

My commission expires: JUNE 5 1999.



Joseph F. Jubilado
Signature of Notary

EXHIBIT A

Being a portion of that land described in a Land Patent from the United States of America to the Denver and Rio Grande Western Railroad Company as recorded in Book 119, Page 628, dated February 25, 1981 in the Official Records of the Emery County Records office, Castle Dale, Emery County, Utah, also being described as a part of Section 15 and a part of Section 22, Township 19 South, Range 8 East, Salt Lake Meridian, Emery County, Utah, and being more particularly described as follows:

The South half of the Southwest quarter of Section 15, Township 19 South, Range 8 East, Salt Lake Meridian.

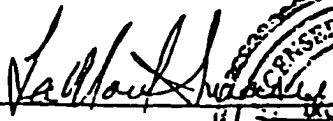
ALSO Lot 1 of Section 22, Township 19 South, Range 8 East, Salt Lake Meridian.

ALSO Lot 2 of Section 22, Township 19 South, Range 8 East, Salt Lake Meridian.

ALSO The Southwest quarter of the Southwest quarter of Section 22, Township 19 South, Range 8 East, Salt Lake Meridian.

Containing 208.41 gross acres and 208.41 net acres.

Signed


Lee Mont Swasey
Licensed Land Surveyor

